SMO Metal and Energy Private Limited





Head Office:

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www.smoferroalloys.com

Factory Unit:

Survey No. 2803/90 Bankakheda, Kothari, Bhilwada, Rajasthan

INTRODUCTION





There will be no surprise to the statement that India will be rising as Waste to Wealth Creation Nation of the next decade. Our people and our valuable Innovative Processes are our most important asset and foundation for success. At SMO, we strive everyday to Extracting Lead and Zinc Out of it. We started our journey from R & D level at our lab.

ABOUT US



The journey towards "The Waste to Wealth Mission".



Welcome to M/s SMO Metal & Energy Private Limited, is a Bunch of inventive minds united in the quest to develop the most sustainable, affordable, and efficient energy security solutions worldwide. SMO Research has been incorporated to provide Battery recycling solution world wide, SMO aims is to be helps India in the Mission of Waste to Wealth creation by proving 0% Waste Solution with our High End Pollution free Technology.

SMO Metal & Energy Private Limited, Newly Formed Company, incorporated as 100% Subsidiary of A Well Reputed Diversified Portfolio owned Company SMO Ferro Alloys Private Limited.

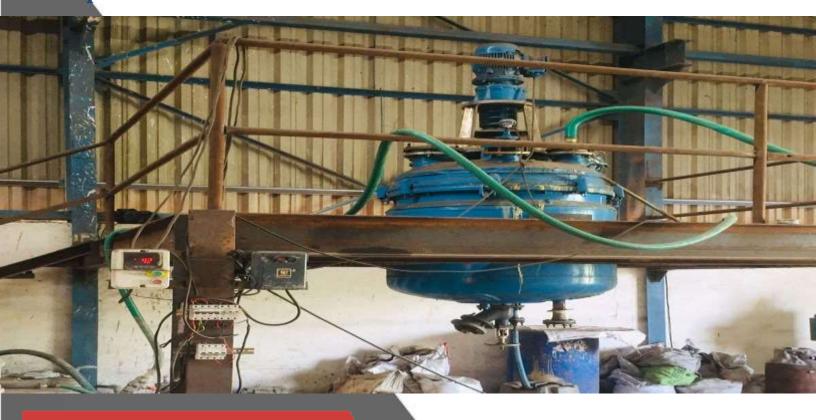


The Company is New but, Promotors are doing Waste Management for many years..

OUR HISTORY

"Our Story defined as a journey of passion, perseverance and innovation"





Initial Stage 2018-2020

Introduction: A tale of passion, perseverance, and innovation Parent Company

Formation 2020-21

SMO Started waste management by processing their Own Wastage.

Laying the Foundation 2021-22

SMO Metals and Energy Pvt. Ltd. has been incorporated for the purpose of doing recovery of metal from waste materials.

Development 2022 – 2023

SMO Metals has been started extracting Lead and Zinc and other valuable contains from the industrial waste.

OUR VISION & OUR MISSION





Our vision

We envision to put in place a comprehensive framework and n be recognized as a Environment, Social and Governance leader in the natural resources sector and create long term value for all our stakeholders through research, discovery, acquisition, sustainable development and utilization of natural resources.



Our Mission

To become the world's largest producer of sustainable Li-ion battery raw materials through recycling, repurposing, and low-carbon refining.

Our Core Values



INTEGRITY

HONOR OUR COMMITMENTS TO THOSE WE SERVE.

We don't take our commitments lightly. We will do everything within our power to meet expectations. We own up to and learn from our mistakes. We do the right thing always.



EMBRACE OPPORTUNITIES

TO LEARN AND IMPROVE.

We invest in ourselves and in one another not just to grow as an organization but also as individuals. Through personal development and continuous improvement we enrich our lives and are better prepared to tackle opportunities as they arise.



INNOVATION

BE CURIOUS, ADVENTUROUS AND CREATIVE.

We question conventional wisdom and challenge the status quo. If there is a better way, we'll find it. We're excited by ingenuity and thrilled to try something new.



COMPASSION

OBSERVE, LISTEN, UNDERSTAND AND ASSIST.

We're all human. Everyone we work with experiences the same hopes and fears. Our compassion is what allows us to understand where we're needed and what we can do to help.



DRIVE

NEVER BE SATISFIED WITH GOOD ENOUGH.

Excellence is a habit not a goal. We welcome a challenge with enthusiasm and go above and beyond the call of duty because it's who we are.

OUR INFRASTRUCTURE FACILITY





Through operational excellence, processing capability and start of the art infrastructure which is at par with international standards, SMO focuses on large scale expansion of its product portfolio in World wide and emerge as a leading waste processing unit.

With a Plant Capacity as follows

- CapacityLead Production 3% (990
 MT Yearly, 83 MT Monthly,
 and 3 MT Per Day)
 zinc Production- 2% (660 MT
 Yearly, 55 MT Monthly and 2 MT
 Per Day.
- Extraction of other valuable minerals and metals out of it on Small Scale





The Company has sufficient land and factory shed for manufacturing and processing of Blead and Zinc extracting out of waste. Pilot Project for extracting was going on at Lab Scale Project for extracting was going on at Meghnagar Industrial Area. Now Company has proposed to scale up this projects on Pilot level by purchasing Land at Bhilwara for set up of Pilot level plant for 100 TPD raw input.



For Manufacturing and processing of waste for extraction of lead and zinc both machine and labour required. We are proposing fully automatic plant and machines and also we work in the Trible area where there is sufficient availability of cheaper labours.

Need of the Project

Lead is very versatile and adaptable, and for centuries has been used in many different applications.

Lead is a highly flexible raw material used in various industries such as automotive, electronics and aerospace. A major application for lead is in vehicle batteries – from traditional internal combustion engines to the batteries which support safety mechanisms in electric vehicles.

Lead is also used in storage technologies, for example in data centres and telecommunication systems, as well as in emergency power generators for hospitalsand othervital services.

Lead plays a key role in recycling other metals. Its carrier properties make it an efficient and effective enabler for recycling non-ferrous metals, from gallium used in mobile phones to the platinum in catalytic convertors. Lead itself can also be recycled indefinitely.

Its high density makes lead an ideal shield against radiation used in medical imaging technologies – ensuring that patients and staff are protected when undergoing vital diagnostic tests, including X-rays and CT scans.

Our Plans

Our hubs will be located in strategic centralized locations. We are currently in the process of establishing our first full flaze unit at Shivgarh in Ratlam District, We also planning to set up our spoke outside India in the US by 2025. We also have plans to set up a spoke in the EU within the next two years.

Additionally, we are in the process of establishing spokes in southern and western India. Our customers and partners are all across the globe in the US, EU, Middle- East, East Asia, and South-East Asia.

Sustainability is at the heart of what we do, and we are inherently ESG focused with a target to Process 4 Million Tons of Batteries scrap by 2030.

OUR MANAGEMENT TEAM



SMO Metals and Energy Pvt. Ltd. was established on the supreme guidance and industrial experience of its founder Mr. Saiyyed Akhtar Ali, at Band Ka Khera, Bhiulwara, Rajasthan



Mr. Sayyad Akhtar Ali

The Superlative Decision Maker backed by the decade long experience in handling the Construction, Manufacturing and Mining Business. His expertise on the operational side of the Business is commendable, his presence in every project is the reason behind excellent execution. The Group's Success and Growth in these two decades are the result of his business decisions. He believes in being associated with the roots



Mr. Saiyyed Murtuza Ali

Mr. Murtuza Ali is the youngest and enthusiastic director of our company. He is mainly focused on the diversified business market. His capabilities and vision will lead the group to new heights. He understands the impact of his family business and its legacy that new relies on him to ensure it continues.

Lead and zinc Extracting



RAW MATERIAL

Waste slag

Waste Ore

Sulphate Solution

Sodium Hydroxide







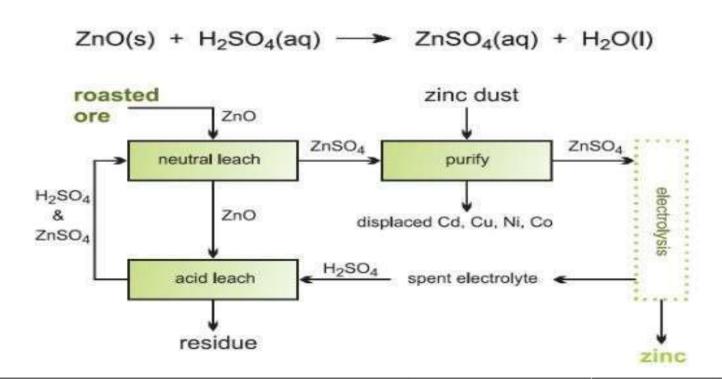




Lead & Zinc Manufacturing Process



Extracting the lead materials from the waste is a multi-step process. First the lead waste is ground into small particles that are less than 0.1mm, giving the ore a texture similar to table salt. Next the lead powder is put through a flotation process, that involves mixing the lead ore with water, the addition of pine oil and the introduction of air bubbles and agitation which forms an oil froth, containing the lead ore, on the surface. The froth is skimmed and then filtered to remove the water. The powder is then sintered at over 2500°F to oxidize impurities such as sulphur. The resulting powder is further heated in a blast furnace, with carbon producing molten lead which is drawn off into lead moulds. At this stage the lead is about 95% pure and is further refined to reach greater than 99% purity by melting and skimming impurities. Gold and silver can be removed from the bullion by adding to it a small quantity of zinc. Once the lead materials reaches a sufficient level of purity it is cast into lead blocks as the finished product. In some cases small quantities of impurities, such as Copper, Antimony, Tin & Zinc, may be added to form lead alloys with various properties.



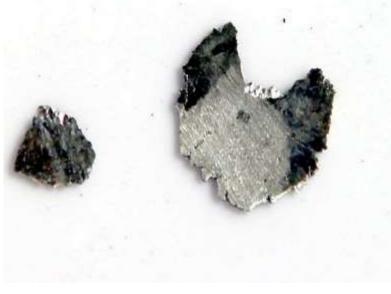
Test report Lead and Zinc

3		Re	port in PF	M						11,	/////	//
Solution Label	Au 242.794 nm	Ir 212.681 nm	Pd 360.955 nm	Pt 214.424 nm	Rh 343.488 nm	Ru 349.894 nm						
T-1	128.03	5.74	10.94	8.39	1.46	22.05						
T2	80.88	1.51	2.31	2.89	0.72	13.39						
Report in Percentage %									0			
Solution	Ce 399.924	Dy 353.602	Er 349.910	Eu 390.711	Ho 339.895	La 408.671	Lu 291.139	Nd 386.341	Pr 390.843	Sc 424.682	Y 361.104	
Label	nm											
T-1	44.97	-3.64 u	3.3	-1.59 u	-2.11 u	30.39	1.37	-12.51 u	5.03 u	3.6	15.09	
T-2	6.94	-1.15 u	0.27 u	-1.84 u	0.05 u	42.5	0.68 u	-19.23 u	11.52	0.54	3.3	
Solution Label	Ag 328.068 nm	Al 396.152 nm	Be 234.861 nm	Ca 396.847 nm	Cd 214.439 nm	Co 238.892 nm	Cr 283.563 nm	Cu 327.395 nm	Fe 238.204 nm	Li 670.783 nm	Mg 280.270 nm	
T-1	30.87	24571.89	0.61	107578.1	20.94	101.98	953.32	5784.64	270986.9	23.9	8115.18	
T-2	209.34	6282.07	0.92	96391.43	254.36	10.05	162.51	833.51	191541.6	4.03	1850.94	
Solution Label	Mn 257.610 nm	Mo 204.598 nm	Ni 216.555 nm	P 213.618	Pb 182.143 nm	Sb 206.834 nm	Se 196.026 nm	Sn 189.925 nm	Ti 336.122 nm	TI 190.794 nm	V 309.310 nm	Zn 213.857 nm
T-1	4065.08	1088.88	365.08	633.74	6481.86	224.02	2.93	14.14	1931.13	4.49	205.19	65182.08
T-2	1386.97	18.93	45.05	519.55	33567.03		3.84 u	11.57	463.24	53.38	184.32	18944.62

Final Finished Product- Lead and zinc







Lead

Zinc



Lead and Zinc



Market

The Statistical and Forecasting Committee conducts comprehensive six-monthly surveys of the views of both its members and their industry advisers and publishes corresponding short-term market forecasts together with a detailed market review. The preliminary and revised detailed forecasts for the global lead and zinc markets are circulated to member countries at the October and Spring Meetings. Summaries are also made available to the world metals' press.

The information provided by members enables the Committee to prepare forecasts that take into account the opinions of government and industry participants worldwide. As a consequence, the information they contain provides a unique perspective on the outlook for the global lead and zinc markets, attracting widespread interest amongst the global base metal's community.

The accuracy of each set of forecasts is carefully monitored and reported on, once the actual figures become available.

Market Size and Growth Potential

CAGR (Compound Annual Growth Rate)

https://www.openpr.com.

Sources- https://www.vantagemarketresearch.com.

https://www.technavio.com/report/zinc-market-industry-analysiss

E-Waste Industrial processes generate by-products that Waste: contain valuable metals. For example, smelting, refining, metal manufacturing operations produce stream often contains metals like residues, slags, and other waste copper, lead, and zinc in various materials containing copper, lead, and zinc.

By-products: Construction **Demolition** and generates substantial amounts of construction and and demolition waste. This waste forms.

> Industrial By-products: processes generate by-products that contain valuable metals.

One Pager for the Project

Group Name	SMO Metal and Energy Private Limited					
Company Address	2803/90 Bankakheda, Bhilwada Rajasthan					
Industry Type	Slag Processing Industry- 2000 TPD					
Finished Goods with Capacity	Lead Recovery- 15120 TPA					
	Zinc Recovery - 10080 TPA					
Raw Material	Slag					
Raw Material Sourcing	Sufficient Availblity					
Project Stage	R & D Completed, Pilot level Completed, Land Acquired, Plant and Machinary Identified, Applied for NOC.					
Commercial Production Start time	6 Month from Investment					
Process Description	Chemical Eco Friendly Process					
Turnover Summary	Approx Rs648 Crores Yearly					
EBITA Ratio	49%					
Funding Required	Rs. 150 Crores Capex					
Payback Period	5-6 Months					
DCF valuation Project Life (10 Years)	Rs. 2600 Crores					

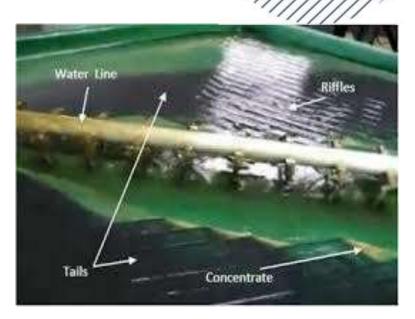
Project Financial:

PROJECTED PROFIT & LOSS A/C FOR NEXT 5 YEARS

Partculars	Amount (in Cr)							
r ai tcuiai s	Year 1	Year 2	Year 3	Year 4	Year 5			
Sales:								
Lead Ingot	264.60	269.89	275.29	280.80	286.41			
Zinc Ingot	383.04	390.70	398.51	406.49	414.61			
Total Revenue	647.64	660.59	673.80	687.28	701.03			
Cost of Purchase								
Raw Material	57.60	58.75	59.93	61.13	62.35			
Direct Expenses								
Processing Stage 1 Exp.	72.00	73.44	74.91	76.41	77.94			
Processing Stage 2 Exp.	158.40	161.57	164.80	168.10	171.46			
Electricity Expenses	3.60	3.67	3.75	3.82	3.90			
Labour Expenses	1.44	1.47	1.50	1.53	1.56			
Total Direct Cost	293.04	298.90	304.88	310.98	317.20			
Gross Profit	354.60	361.69	368.93	376.30	383.83			
Indirect Expenses								
Administrative & Salary Expenses	36	36.72	37.45	38.20	38.97			
Depriciation	22.50	19.13	16.26	13.82	11.75			
Interest Cost	18.00	18.36	18.73	19.10	19.48			
Other Cost	7.20	7.34	7.49	7.64	7.79			
Total Indirect Cost	83.7	81.55	79.93	78.76	77.99			
Net Profit	270.90	280.14	289.00	297.54	305.84			
Net Profit Ratio	41.83%	42.41%	42.89%	43.29%	43.63%			

GALLERY















Thank You